



ABNORMAL TEST RESULT

OF MODEL DCS1400B

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

(FMEA : 2/50 ~ 47/50)

(Abnormal Test Result: 48/50 ~ 50/50)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.



F M E A

Component	Mode	Comment	Output Voltage (V)
C11	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C12	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C13	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C14	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C15	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C16	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C17	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C18	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C21	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No Hazard.	AVR1:0
C31	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C32	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C33	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C51	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C52	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C61	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C62	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C71	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C72	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C73	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C74	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C75	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C76	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C77	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C78	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C79	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C80	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C81	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C82	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C83	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C84	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C85 (Except:48)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C86 (Only 12, 28, 65)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C87 (Only 12, 28)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C101	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C201	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C202	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C203	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C301	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C302	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C303	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C304	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C321	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C331	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C332	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C333	Open	Normal operation.	AVR1:**
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C334	Open	Normal operation.	AVR1:**
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C340	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C351	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
C352	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C353	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C354	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C355	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C356	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C357	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C358	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C359	Open	Normal operation.	AVR1:**
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C360	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C361	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C401	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C402	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C404	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C405	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C406	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C407	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C408	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C411	Open	See page 48.	
	Short	Normal operation.	AVR1:**
C421	Open	See page 48.	
	Short	Normal operation.	AVR1:**
C422	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C431	Open	See page 48.	
	Short	Normal operation.	AVR1:**
C441	Open	See page 48.	
	Short	Normal operation.	AVR1:**
C442	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C451	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C452	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C453	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C454	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C456	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C461	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C462	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C501	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C502	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C503	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C504	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C505	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C506	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C507	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C508	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C509	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C510	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C511 (Only 12)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C512 (Only 12)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C514 (Only 12)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C515 (Only 12)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C516 (Only 12)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C531	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C533	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C535	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C536	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C541	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C542	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C543	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C601	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C602	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C603	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C605	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C613	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C614	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C615	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C616	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C617	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C618	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C619	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C621	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C631	Open	Normal operation.	AVR1:*
	Short	Output voltage increased. No Hazard.	AVR1:increased(103%)
C632	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C633	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C634	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C635	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C636	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	Normal operation.	AVR1:*
C660	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C661	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C662	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C663	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C664	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C666	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C667	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C668	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C669	Open	Normal operation.	AVR1:*
	Short	Output voltage increased. No Hazard.	AVR1:increased(108%)
C671	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C701	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C702	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C703	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C704	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C705	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C711	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C731	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C732	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C734	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C735	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C736	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C741	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C742	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C743	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C744	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C751	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C752	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C763	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C764	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C781	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C782	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C941	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C942	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C943	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C944	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
D11	Open	See page 48.	
	Short	No Hazard.	AVR1:0
D12	Open	See page 48.	
	Short	No Hazard.	AVR1:0
D13	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
D351	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D352	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D353	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
D354	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
D360	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
D411	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D421	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D431	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D441	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D451	Open	Normal operation.	AVR1:*
	Short	See page 48.	
D452	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D461	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
D631 (Only 48, 65)	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D632 (Only 48, 65)	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D633	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No Hazard.	AVR1:decreased
D634	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No Hazard.	AVR1:decreased
D635	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
D661	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
D731	Open		No Hazard.	AVR1:0
	Short		Output voltage decreased. No Hazard.	AVR1:decreased
D732	Open		Output voltage decreased. No Hazard.	AVR1:decreased
	Short		Normal operation.	AVR1:*
D941	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
IC51	Open	1	No Hazard.	AVR1:0
		2	See page 48.	
		3	See page 48.	
		4	See page 48.	
		5	See page 48.	
		6	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC51	Short	1-2	No Hazard.	AVR1:0
		2-3	See page 48.	
		4-5	See page 48.	
		5-6	Normal operation.	AVR1:*
IC61	Open	1	No Hazard.	AVR1:0
		2	See page 48.	
		3	See page 48.	
		4	See page 48.	
		5	See page 48.	
		6	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	See page 48.	
		4-5	See page 48.	
		5-6	Normal operation.	AVR1:*
IC101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	External Fuse opened, No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		4-5	See page 48.	
		5-6	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC202	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	Normal operation.	AVR1:*
		4	No Hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC301	Open	1	Normal operation.	AVR1:*
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
		10	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Open	11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		15	No Hazard.	AVR1:0
		16	Normal operation.	AVR1:*
		17	No Hazard.	AVR1:0
		18	No Hazard.	AVR1:0
		19	No Hazard.	AVR1:0
		20	No Hazard.	AVR1:0
		21	Normal operation.	AVR1:*
		22	Normal operation.	AVR1:*
		23	Normal operation.	AVR1:*
		24	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	No Hazard.	AVR1:0
		4-5	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0
		8-9	No Hazard.	AVR1:0
		9-10	Output voltage decreased. No Hazard.	AVR1:decreased
		10-11	Normal operation.	AVR1:*
		11-12	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	13-14	Normal operation.	AVR1:*
		14-15	No Hazard.	AVR1:0
		15-16	No Hazard.	AVR1:0
		16-17	No Hazard.	AVR1:0
		17-18	Normal operation.	AVR1:*
		19-20	Normal operation.	AVR1:*
		20-21	Normal operation.	AVR1:*
		21-22	Normal operation.	AVR1:*
		22-23	Normal operation.	AVR1:*
		23-24	Normal operation.	AVR1:*
IC331	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
IC351	Open	1	Normal operation.	AVR1:*
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC353	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
IC451	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
IC541	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	Normal operation.	AVR1:*
		4	No Hazard.	AVR1:0
		5	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC541	Open	6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC611	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	Output voltage decreased. No Hazard.	AVR1:decreased
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	No Hazard.	AVR1:0
		5-6	Output voltage decreased. No Hazard.	AVR1:decreased
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC632	Open	1	Normal operation.	AVR1:*



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Component	Mode		Comment	Output Voltage (V)
IC632	Open	2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Output voltage decreased. No Hazard.	AVR1:decreased
		3-4	No Hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC661	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
IC661	Short	5-6	No Hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC701	Open	1	Normal operation.	AVR1:*
		2	No Hazard.	AVR1:0
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	No Hazard.	AVR1:0
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	No Hazard.	AVR1:0
		19	Normal operation.	AVR1:*
		20	No Hazard.	AVR1:0
		21	Normal operation.	AVR1:*



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Component	Mode		Comment	Output Voltage (V)
IC701	Open	22	No Hazard.	AVR1:0
		23	No Hazard.	AVR1:0
		24	Normal operation.	AVR1:*
		25	See page 48.	
		26	No Hazard.	AVR1:0
		27	No Hazard.	AVR1:0
		28	Normal operation.	AVR1:*
		29	Normal operation.	AVR1:*
		30	Normal operation.	AVR1:*
		31	Normal operation.	AVR1:*
		32	Normal operation.	AVR1:*
		33	No Hazard.	AVR1:0
		34	No Hazard.	AVR1:0
		35	No Hazard.	AVR1:0
		36	No Hazard.	AVR1:0
		37	No Hazard.	AVR1:0
		38	Normal operation.	AVR1:*
		39	Normal operation.	AVR1:*
		40	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*



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Component	Mode		Comment	Output Voltage (V)
IC701	Short	6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		8-9	No Hazard.	AVR1:0
		9-10	No Hazard.	AVR1:0
		11-12	Normal operation.	AVR1:*
		12-13	Normal operation.	AVR1:*
		13-14	No Hazard.	AVR1:0
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	No Hazard.	AVR1:0
		19-20	No Hazard.	AVR1:0
		21-22	No Hazard.	AVR1:0
		22-23	No Hazard.	AVR1:0
		23-24	No Hazard.	AVR1:0
		24-25	No Hazard.	AVR1:0
		25-26	No Hazard.	AVR1:0
		26-27	No Hazard.	AVR1:0
		27-28	No Hazard.	AVR1:0
		28-29	No Hazard.	AVR1:0
		29-30	No Hazard.	AVR1:0
		31-32	Normal operation.	AVR1:*
		32-33	No Hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
IC701	Short	33-34	Normal operation.	AVR1:**
		34-35	No Hazard.	AVR1:0
		35-36	Normal operation.	AVR1:**
		36-37	Normal operation.	AVR1:**
		37-38	Output voltage decreased. No Hazard.	AVR1:decreased
		38-39	No Hazard.	AVR1:0
		39-40	No Hazard.	AVR1:0
IC731	Open	1	Normal operation.	AVR1:**
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:**
		2-3	No Hazard.	AVR1:0
IC741	Open	1	Normal operation.	AVR1:**
		2	Normal operation.	AVR1:**
		3	Output voltage decreased. No Hazard.	AVR1:decreased
		4	Normal operation.	AVR1:**
		5	Normal operation.	AVR1:**
	Short	1-2	Normal operation.	AVR1:**
		2-3	Normal operation.	AVR1:**
J11	Open		No Hazard.	AVR1:0
J81	Open		Normal operation.	AVR1:**
J82	Open		Normal operation.	AVR1:**



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Component	Mode		Comment	Output Voltage (V)
J83 (Only 12, 24, 28)	Open		Normal operation.	AVR1:*
J84 (Only 12, 24, 28)	Open		Normal operation.	AVR1:*
L11	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L12	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
L13	Open		See page 48.	
	Short		Normal operation.	AVR1:*
L14	Open		See page 48.	
	Short		Normal operation.	AVR1:*
PC301	Open	A, K	No Hazard.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
PC351	Open	A, K	No Hazard.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
R11	Open		Normal operation.	AVR1:*
R31	Open		No Hazard.	AVR1:0
R51	Open		Normal operation.	AVR1:*
R52	Open		Normal operation.	AVR1:*
R53	Open		See page 48.	
R54	Open		No Hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R55	Open	No Hazard.	AVR1:0
R56	Open	See page 49.	
R57	Open	See page 49.	
R58	Open	See page 49.	
R61	Open	Normal operation.	AVR1:**
R62	Open	Normal operation.	AVR1:**
R63	Open	See page 49.	
R64	Open	No Hazard.	AVR1:0
R65	Open	No Hazard.	AVR1:0
R66	Open	See page 49.	
R71	Open	No Hazard.	AVR1:0
R72	Open	Normal operation.	AVR1:**
R81	Open	Normal operation.	AVR1:**
R82	Open	Normal operation.	AVR1:**
R83	Open	Normal operation.	AVR1:**
R84	Open	Normal operation.	AVR1:**
R85	Open	Normal operation.	AVR1:**
R86	Open	Normal operation.	AVR1:**
R87	Open	Normal operation.	AVR1:**
R88	Open	Normal operation.	AVR1:**
R89	Open	Normal operation.	AVR1:**
R90	Open	Normal operation.	AVR1:**
R91	Open	Normal operation.	AVR1:**
R92	Open	Normal operation.	AVR1:**



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Component	Mode	Comment	Output Voltage (V)
R101	Open	No Hazard.	AVR1:0
R102	Open	External Fuse opened, No Hazard.	AVR1:0
R104	Open	No Hazard.	AVR1:0
R105	Open	No Hazard.	AVR1:0
R106	Open	No Hazard.	AVR1:0
R201	Open	No Hazard.	AVR1:0
R202	Open	No Hazard.	AVR1:0
R211	Open	No Hazard.	AVR1:0
R212	Open	Normal operation.	AVR1:**
R301	Open	Normal operation.	AVR1:**
R302	Open	No Hazard.	AVR1:0
R304	Open	No Hazard.	AVR1:0
R305	Open	Normal operation.	AVR1:**
R306	Open	No Hazard.	AVR1:0
R311	Open	Normal operation.	AVR1:**
R312	Open	Normal operation.	AVR1:**
R313	Open	Normal operation.	AVR1:**
R314	Open	Normal operation.	AVR1:**
R321	Open	Normal operation.	AVR1:**
R322	Open	Normal operation.	AVR1:**
R323	Open	Normal operation.	AVR1:**
R324	Open	No Hazard.	AVR1:0
R331	Open	No Hazard.	AVR1:0
R332	Open	No Hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R333	Open	No Hazard.	AVR1:0
R334	Open	No Hazard.	AVR1:0
R335	Open	No Hazard.	AVR1:0
R336	Open	No Hazard.	AVR1:0
R337	Open	No Hazard.	AVR1:0
R338	Open	No Hazard.	AVR1:0
R339	Open	No Hazard.	AVR1:0
R340	Open	No Hazard.	AVR1:0
R341	Open	No Hazard.	AVR1:0
R342	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R343	Open	Normal operation.	AVR1:*
R344	Open	No Hazard.	AVR1:0
R351	Open	Normal operation.	AVR1:*
R352	Open	Normal operation.	AVR1:*
R353	Open	Normal operation.	AVR1:*
R354	Open	No Hazard.	AVR1:0
R355	Open	No Hazard.	AVR1:0
R356	Open	No Hazard.	AVR1:0
R357	Open	Normal operation.	AVR1:*
R359	Open	Normal operation.	AVR1:*
R360	Open	Normal operation.	AVR1:*
R361	Open	Normal operation.	AVR1:*
R362	Open	Normal operation.	AVR1:*
R363	Open	Output voltage decreased. No Hazard.	AVR1:decreased



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Component	Mode	Comment	Output Voltage (V)
R364	Open	Normal operation.	AVR1:*
R365	Open	Normal operation.	AVR1:*
R411	Open	No Hazard.	AVR1:0
R412	Open	No Hazard.	AVR1:0
R413	Open	No Hazard.	AVR1:0
R414	Open	Normal operation.	AVR1:*
R421	Open	No Hazard.	AVR1:0
R422	Open	No Hazard.	AVR1:0
R423	Open	No Hazard.	AVR1:0
R424	Open	Normal operation.	AVR1:*
R431	Open	No Hazard.	AVR1:0
R432	Open	No Hazard.	AVR1:0
R433	Open	No Hazard.	AVR1:0
R434	Open	Normal operation.	AVR1:*
R441	Open	No Hazard.	AVR1:0
R442	Open	No Hazard.	AVR1:0
R443	Open	No Hazard.	AVR1:0
R444	Open	Normal operation.	AVR1:*
R451	Open	No Hazard.	AVR1:0
R452	Open	Normal operation.	AVR1:*
R453	Open	Normal operation.	AVR1:*
R454	Open	No Hazard.	AVR1:0
R455	Open	No Hazard.	AVR1:0
R456	Open	No Hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R461	Open	Normal operation.	AVR1:**
R501 (Only 36, 48, 65)	Open	Normal operation.	AVR1:**
R502 (Only 36, 48, 65)	Open	Normal operation.	AVR1:**
R503 (Only 36, 48, 65)	Open	Normal operation.	AVR1:**
R504 (Only 36, 48, 65)	Open	Normal operation.	AVR1:**
R531	Open	No Hazard.	AVR1:0
R532	Open	Normal operation.	AVR1:**
R533	Open	Normal operation.	AVR1:**
R534	Open	Normal operation.	AVR1:**
R535	Open	Normal operation.	AVR1:**
R541	Open	No Hazard.	AVR1:0
R590	Open	Normal operation.	AVR1:**
R591	Open	Normal operation.	AVR1:**
R601	Open	No Hazard.	AVR1:0
R602	Open	Normal operation.	AVR1:**
R603	Open	Normal operation.	AVR1:**
R611	Open	No Hazard.	AVR1:0
R612	Open	No Hazard.	AVR1:0
R615	Open	No Hazard.	AVR1:0
R616	Open	No Hazard.	AVR1:0
R617	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R618	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R619	Open	No Hazard.	AVR1:0
R620	Open	Normal operation.	AVR1:**



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Component	Mode	Comment	Output Voltage (V)
R621	Open	No Hazard.	AVR1:0
R622	Open	No Hazard.	AVR1:0
R623	Open	Normal operation.	AVR1:*
R625	Open	No Hazard.	AVR1:0
R626	Open	No Hazard.	AVR1:0
R631	Open	No Hazard.	AVR1:0
R632 (Only 48, 65)	Open	No Hazard.	AVR1:0
R633	Open	No Hazard.	AVR1:0
R634	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R635	Open	Output voltage increased. No Hazard.	AVR1:increased(102%)
R636	Open	No Hazard.	AVR1:0
R637	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R638	Open	No Hazard.	AVR1:0
R639	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R640 (Only 48, 65)	Open	Normal operation.	AVR1:*
R641 (Only 48, 65)	Open	Normal operation.	AVR1:*
R642 (Except:48, 65)	Open	Normal operation.	AVR1:*
R643 (Except:48, 65)	Open	Normal operation.	AVR1:*
R651	Open	No Hazard.	AVR1:0
R660	Open	No Hazard.	AVR1:0
R661	Open	No Hazard.	AVR1:0
R662	Open	No Hazard.	AVR1:0
R663	Open	Normal operation.	AVR1:*
R664	Open	No Hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R665	Open	No Hazard.	AVR1:0
R666	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R667	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R668	Open	No Hazard.	AVR1:0
R669	Open	Normal operation.	AVR1:*
R670	Open	Normal operation.	AVR1:*
R671	Open	Normal operation.	AVR1:*
R674	Open	No Hazard.	AVR1:0
R675	Open	No Hazard.	AVR1:0
R701	Open	Normal operation.	AVR1:*
R702	Open	No Hazard.	AVR1:0
R704	Open	No Hazard.	AVR1:0
R705	Open	No Hazard.	AVR1:0
R711	Open	No Hazard.	AVR1:0
R712	Open	No Hazard.	AVR1:0
R731	Open	Normal operation.	AVR1:*
R732	Open	No Hazard.	AVR1:0
R733	Open	No Hazard.	AVR1:0
R734	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R735	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R736	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R737	Open	Output voltage decreased. No Hazard.	AVR1:decreased
R738	Open	No Hazard.	AVR1:0
R739	Open	No Hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R740	Open	No Hazard.	AVR1:0
R741	Open	Normal operation.	AVR1:**
R742	Open	No Hazard.	AVR1:0
R743	Open	No Hazard.	AVR1:0
R744	Open	Normal operation.	AVR1:**
R745	Open	Normal operation.	AVR1:**
R746	Open	Normal operation.	AVR1:**
R747	Open	Normal operation.	AVR1:**
R751	Open	Normal operation.	AVR1:**
R752	Open	Normal operation.	AVR1:**
R753	Open	No Hazard.	AVR1:0
R754	Open	No Hazard.	AVR1:0
R755	Open	No Hazard.	AVR1:0
R756	Open	Normal operation.	AVR1:**
R761	Open	No Hazard.	AVR1:0
R762	Open	No Hazard.	AVR1:0
R763	Open	No Hazard.	AVR1:0
R764	Open	No Hazard.	AVR1:0
R771	Open	Normal operation.	AVR1:**
R772	Open	Normal operation.	AVR1:**
R773	Open	Normal operation.	AVR1:**
R781	Open	Normal operation.	AVR1:**
R782	Open	Normal operation.	AVR1:**
R783	Open	Normal operation.	AVR1:**



F M E A

Component	Mode		Comment	Output Voltage (V)
R941	Open		Normal operation.	AVR1:*
R942	Open		Normal operation.	AVR1:*
T401	Open	3	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
T402	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
T403	Open	4	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
TH51	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
TR11	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	External Fuse opened, No Hazard.	AVR1:0
	Short	D-S	See page 49.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 49.	
TR51	Open	D	See page 49.	
		S	See page 49.	
		G	No Hazard.	AVR1:0
	Short	D-S	See page 49.	
		S-G	See page 49.	
		G-D	See page 49.	
TR52	Open	D	See page 49.	



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Component	Mode		Comment	Output Voltage (V)
TR52	Open	S	See page 49.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	See page 49.	
		G-D	No Hazard.	AVR1:0
TR53	Open	C	See page 49.	
		E	See page 49.	
		B	See page 49.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	See page 49.	
		B-C	No Hazard.	AVR1:0
TR61	Open	D	See page 49.	
		S	See page 49.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	See page 49.	
		G-D	No Hazard.	AVR1:0
TR62	Open	D	See page 49.	
		S	See page 49.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	See page 50.	
		G-D	No Hazard.	AVR1:0
TR83	Open	D	Normal operation.	AVR1:*



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Component	Mode		Comment	Output Voltage (V)
TR83	Open	S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	No Hazard.	AVR1:0
		G-D	Normal operation.	AVR1:*
TR301	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	Output voltage decreased. No Hazard.	AVR1:decreased
TR321	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
TR331	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	D-S	Output voltage decreased. No Hazard.	AVR1:decreased
		S-G	Normal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0
TR351	Open	1 (1)	No Hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
TR351	Open	1 (2)	No Hazard.	AVR1:0
		2 (3)	Normal operation.	AVR1:**
		2 (4)	Normal operation.	AVR1:**
		2 (5)	Normal operation.	AVR1:**
		1 (6)	No Hazard.	AVR1:0
	Short	1-1 (1-2)	No Hazard.	AVR1:0
		1-2 (2-3)	Normal operation.	AVR1:**
		2-2 (4-5)	Normal operation.	AVR1:**
		2-1 (5-6)	Normal operation.	AVR1:**
TR352	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:**
		B-C	No Hazard.	AVR1:0
TR361	Open	C	No Hazard.	AVR1:0
		E	Output voltage decreased. No Hazard.	AVR1:decreased
		B	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	C-E	Normal operation.	AVR1:**
		E-B	Output voltage decreased. No Hazard.	AVR1:decreased
		B-C	No Hazard.	AVR1:0
TR362	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**



F M E A

Component	Mode		Comment	Output Voltage (V)
TR362	Short	C-E	Output voltage decreased. No Hazard.	AVR1:decreased
		E-B	Normal operation.	AVR1:*
		B-C	Output voltage decreased. No Hazard.	AVR1:decreased
TR363	Open	E(1)	Normal operation.	AVR1:*
		B(2)	Normal operation.	AVR1:*
		C(3)	Output voltage decreased. No Hazard.	AVR1:decreased
		E(4)	Output voltage decreased. No Hazard.	AVR1:decreased
		B(5)	Output voltage decreased. No Hazard.	AVR1:decreased
		C(6)	Normal operation.	AVR1:*
	Short	E-B(1-2)	Normal operation.	AVR1:*
		B-C(2-3)	Normal operation.	AVR1:*
		E-B(4-5)	Normal operation.	AVR1:*
		B-C(5-6)	Output voltage decreased. No Hazard.	AVR1:decreased
TR411	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR412	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR412	Short	G-D	No Hazard.	AVR1:0
TR413	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR421	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	See page 50.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 50.	
TR422	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR423	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR423	Short	G-D	No Hazard.	AVR1:0
TR431	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR432	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR433	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR441	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR441	Short	G-D	No Hazard.	AVR1:0
TR442	Open	D	See page 50.	
		S	See page 50.	
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR443	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR531	Open	S (1)	No Hazard.	AVR1:0
		G (2)	No Hazard.	AVR1:0
		D (3)	No Hazard.	AVR1:0
		S (4)	No Hazard.	AVR1:0
		G (5)	No Hazard.	AVR1:0
		D (6)	No Hazard.	AVR1:0
	Short	S-G (1-2)	No Hazard.	AVR1:0
		G-D (2-3)	No Hazard.	AVR1:0
		S-G (4-5)	No Hazard.	AVR1:0
		G-D (5-6)	No Hazard.	AVR1:0
TR532	Open	S (1)	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR532	Open	G (2)	No Hazard.	AVR1:0
		D (3)	No Hazard.	AVR1:0
		S (4)	No Hazard.	AVR1:0
		G (5)	No Hazard.	AVR1:0
		D (6)	No Hazard.	AVR1:0
	Short	S-G (1-2)	No Hazard.	AVR1:0
		G-D (2-3)	No Hazard.	AVR1:0
		S-G (4-5)	No Hazard.	AVR1:0
		G-D (5-6)	No Hazard.	AVR1:0
TR611	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR661	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
TR662	Open	C	Normal operation.	AVR1:*
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR662	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
TR731	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	Output voltage decreased. No Hazard.	AVR1:decreased
		E-B	No Hazard.	AVR1:0
		B-C	Output voltage decreased. No Hazard.	AVR1:decreased
TR771	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	No Hazard.	AVR1:0
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*
TR781	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR781	Short	B-C	Normal operation.	AVR1:**
TR811	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
		G	Normal operation.	AVR1:**
	Short	D-S	Normal operation.	AVR1:**
		S-G	Normal operation.	AVR1:**
		G-D	Normal operation.	AVR1:**
ZD51	Open		Normal operation.	AVR1:**
	Short		See page 50.	
ZD531	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
ZD532	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
ZD761	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
ZD771	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C411	Open		No Hazard.	AVR1:0
C421	Open		No Hazard.	AVR1:0
C431	Open		No Hazard.	AVR1:0
C441	Open		No Hazard.	AVR1:0
D11	Open		Normal operation.	AVR1:**
D12	Open		Normal operation.	AVR1:**
D451	Short		Normal operation.	AVR1:**
IC51	Open	2	Normal operation.	AVR1:**
		3	Normal operation.	AVR1:**
		4	Normal operation.	AVR1:**
		5	Normal operation.	AVR1:**
	Short	2-3	Normal operation.	AVR1:**
		4-5	No Hazard.	AVR1:0
IC61	Open	2	Normal operation.	AVR1:**
		3	Normal operation.	AVR1:**
		4	Normal operation.	AVR1:**
		5	Normal operation.	AVR1:**
	Short	2-3	Normal operation.	AVR1:**
		4-5	No Hazard.	AVR1:0
IC101	Short	4-5	No Hazard.	AVR1:0
IC701	Open	25	Normal operation.	AVR1:**
L13	Open		Normal operation.	AVR1:**
L14	Open		Normal operation.	AVR1:**
R53	Open		Normal operation.	AVR1:**



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
R56	Open		Normal operation.	AVR1:**
R57	Open		Normal operation.	AVR1:**
R58	Open		Normal operation.	AVR1:**
R63	Open		Normal operation.	AVR1:**
R66	Open		Normal operation.	AVR1:**
TR11	Short	D-S	External Fuse opened, No Hazard.	AVR1:0
		G-D	External Fuse opened, No Hazard.	AVR1:0
TR51	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
	Short	D-S	No Hazard.	AVR1:0
		S-G	Normal operation.	AVR1:**
		G-D	No Hazard.	AVR1:0
TR52	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
	Short	S-G	Normal operation.	AVR1:**
TR53	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	E-B	Normal operation.	AVR1:**
TR61	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
	Short	S-G	Normal operation.	AVR1:**
TR62	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR62	Short	S-G	Normal operation.	AVR1:**
TR411	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
TR412	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
TR421	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
	Short	D-S	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR422	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
TR431	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
TR432	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
TR441	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
TR442	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
ZD51	Short		Normal operation.	AVR1:**